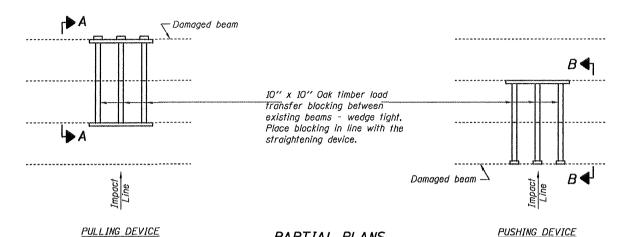
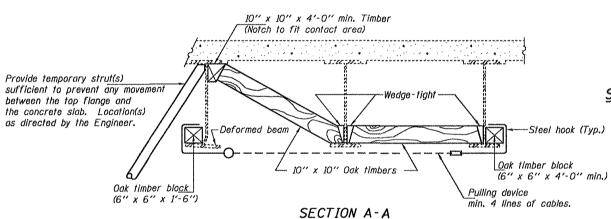
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

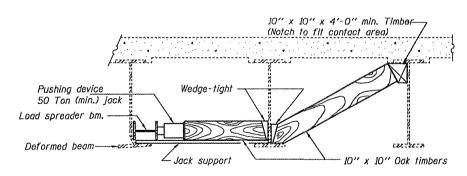


PARTIAL PLANS SUGGESTED BEAM STRAIGHTENING METHODS

Straightening force shall be maintained on all load transfer blocking during beam straightening.

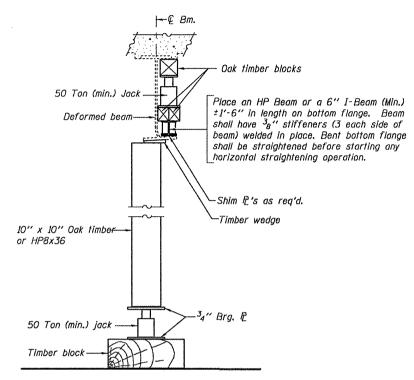
PUSHING DEVICE





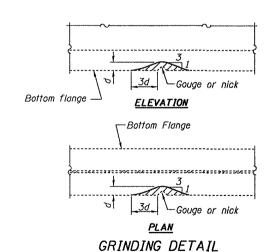
SECTION B-B

			A DD II - 9.7 - 9.000
DESIGNED		AIH	<u>APRIL 27, 2009</u>
CHECKED		GGE	EXAMINED & Carl Prayey
DRAWN	Kyle M.	Steffen	PASSED Ralph E. anderson
CHECKED	ATH	GGE	ENGINEER OF BRIDGES AND STRUCTURES

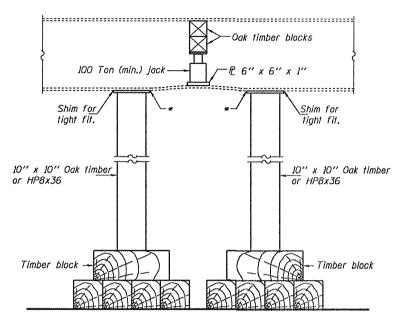


SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct flange rotation.)



Grind existing nicks, gouges and shallow cracks in the damaged beams as detailed. Ground surfaces shall be inspected for cracks using magnetic particle testing prior to initiating any beam straightening operations. Any cracks that cannot be removed by grinding approximately ${}^{l}_{4}$ " deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Ground surfaces shall be spot cleaned and painted with an aluminum epoxy mastic primer followed by a finish coat to match the color of the existing beam. Cost of grinding, testing and spot painting included with Beam Straightening.

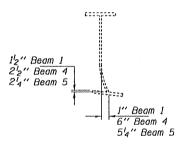


SUGGESTED VERTICAL STRAIGHTENING DETAIL

(To correct localized vertical flange deformations.)

* Edge of plate shall line up with edge of deformation.

Braces and jack assembly shall be placed on same side of web. Bent bottom flange shall be straightened before starting any horizontal straightening operations.



EXISTING DEFORMATION TO BE STRAIGHTENED

(Looking East) (Approximate max. deflections) Deflected length of beam to be straightened is approximately 7'-0" (Beam 1). 11'-6" (Beam 4), and 9'-0" (Beam 5).

BEAM STRAIGHTENING DETAILS SN 016-2121

SHEET NO. 4	F.A.P. RTE.		SECTION				COUNTY TOTAL SHEETS		AL TS	SHEET NO.			
	332		0101.1 I-3				COOK	11		9			
5 SHEETS						(CONTRACT	NO.	60	G33			
	FED. RO.	AD DIST.	NO.	ILLINOIS	FED.	AID	PROJECT						

REP-1 1-14-2005